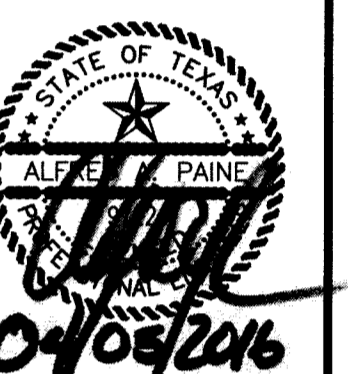


SITE SPECIFIC NOTES

- PROJECT IDENTIFICATION:
PROJECT NAME: SOS MINISTRIES PHASE II.
LOCATION: 1700 GROESBECK
LEGAL DESCRIPTION: LOT 2, BLOCK 1, SAVE OUR STREETS
SUBDIVISION.
2. APPLICANT INFORMATION:
NAME: SOS MINISTRIES
C/O J.J. RAMERAZ
P.O. BOX 2886
BRYAN, TEXAS
(979) 775-5357
3. OWNER INFORMATION:
SOS MINISTRIES
C/O J.J. RAMERAZ
P.O. BOX 2886
BRYAN, TEXAS
(979) 775-5357
4. TOTAL SITE AREA TO BE DISTURBED IS: 2.34 ACRES.
5. CURRENT ZONING: RESIDENTIAL DISTRICT-5000 (RD-5)
PROPOSED ZONING: PLANNED DEVELOPMENT - MIXED USE
(PD-MIXED USE TRACT). AS APPROVED BY THE BRYAN CITY COUNCIL
ON NOVEMBER 25, 2008 (ORDINANCE NO. ____); ALL
DEVELOPMENT ON THIS PROPERTY SHALL BE IN ACCORDANCE
WITH CITY SPECIFIC DEVELOPMENT REQUIREMENTS FOR THE
PD-MIXED DISTRICT.
6. CURRENT USE: VACANT
7. PROPOSED USE & IMPROVEMENTS: 5,000 SQ.FT. & 3,750
SQ.FT. MIXED USE CENTER, WATER, SANITARY SEWER AND
PARKING.
8. NO PORTION OF THE SUBJECT TRACT (20.61 ACRES) LIES
WITHIN THE FLOOD PLANNING AREA OF THE F.E.M.A.
FLOOD INSURANCE RATE MAP FOR BRAZOS COUNTY, TEXAS AND
INCORPORATED AREAS. COMMUNITY NO. 480082, PANEL NO.
01414. MAP NO. 48041C0141C. EFFECTIVE DATE: JULY 2,
1992.
9. ALL PUBLIC AND PRIVATE UTILITY LINES & SERVICE LINES
INCLUDING WATERLINES, SANITARY SEWER LINES, ELECTRIC
LINES, CABLE, TELECOMMUNICATIONS LINES, etc. SHALL BE
UNDERGROUND INSTALLATIONS AND INSTALLED TO CITY OF
BRYAN STANDARDS.
10. BUILDING AREA: 5,000 SQ.FT. & 3,750 SQ.FT.
11. DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS
OTHERWISE NOTED
12. ALL DISTURBED AREA SHALL BE 100% COVERED WITH
ESTABLISHED GRASS OR GROUND COVER PRIOR TO CERTIFICATE
OF COMPLETION.
13. ALL BACK FLOW DEVICES MUST BE INSTALLED AND TESTED
UPON INSTALLATION AS PER CITY ORDINANCE.
14. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR
COORDINATING INSTALLATION OF ALL FRANCHISE & PRIVATE
UTILITIES WITH EARTHWORK & PAVEMENT CONSTRUCTION.
GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING &
INSTALLING ANY NECESSARY UTILITY CONDUIT PRIOR TO
SEWER PREPARATION AND PAVING OPERATION. GENERAL
CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF UTILITY
INSTALLATION ORDER.
15. ALL ROOF AND GROUND MOUNTED MECHANICAL EQUIPMENT
SHALL BE SCREENED FROM VIEW FROM ANY PUBLIC
RIGHT-OF-WAY OF RESIDENTIAL DISTRICT WITHIN 150' OF
THE SUBJECT LOT. SUCH SCREENING SHALL BE COORDINATED WITH
BUILDING ARCHITECTURE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE
CONTAINMENT OF ALL DEBRIS, DUST AND SOLID
WASTE ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR
SHALL USE ALL MEANS NECESSARY TO PREVENT THE
ACCUMULATION OF DEBRIS AND LITTER FROM THE PROJECT SITE.
17. DEMOLITION / CONSTRUCTION WASTE: SITE IS REQUIRED TO
PROVIDE CONTAINMENT FOR WASTE PRIOR TO AND DURING
DEMOLITION / CONSTRUCTION. SOLID WASTE ROLL OFF BOXES
AND PORTABLE DUMPSTERS SHALL BE SUPPLIED BY CITY OR
CITY PERMITTED CONTRACTOR.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING
TEMPORARY WATER OUTAGE WITH ADJACENT & AFFECTED
PROPERTIES AS WELL AS WITH CITY OF BRYAN WATER

DESIGNED BY:	DJD
DRAWN BY:	DJD
APPROVED:	APP
JOB NO.:	

D O N D U R D E N , I N C
d.b.a. CIVIL ENGINEERING CONSULTANTS
4101 S. TEXAS AVE., SUITE A
BRYAN, TEXAS 77802
TEL: (979) 846-6212
FAX: (979) 846-8252
REGISTRATION #F-2214

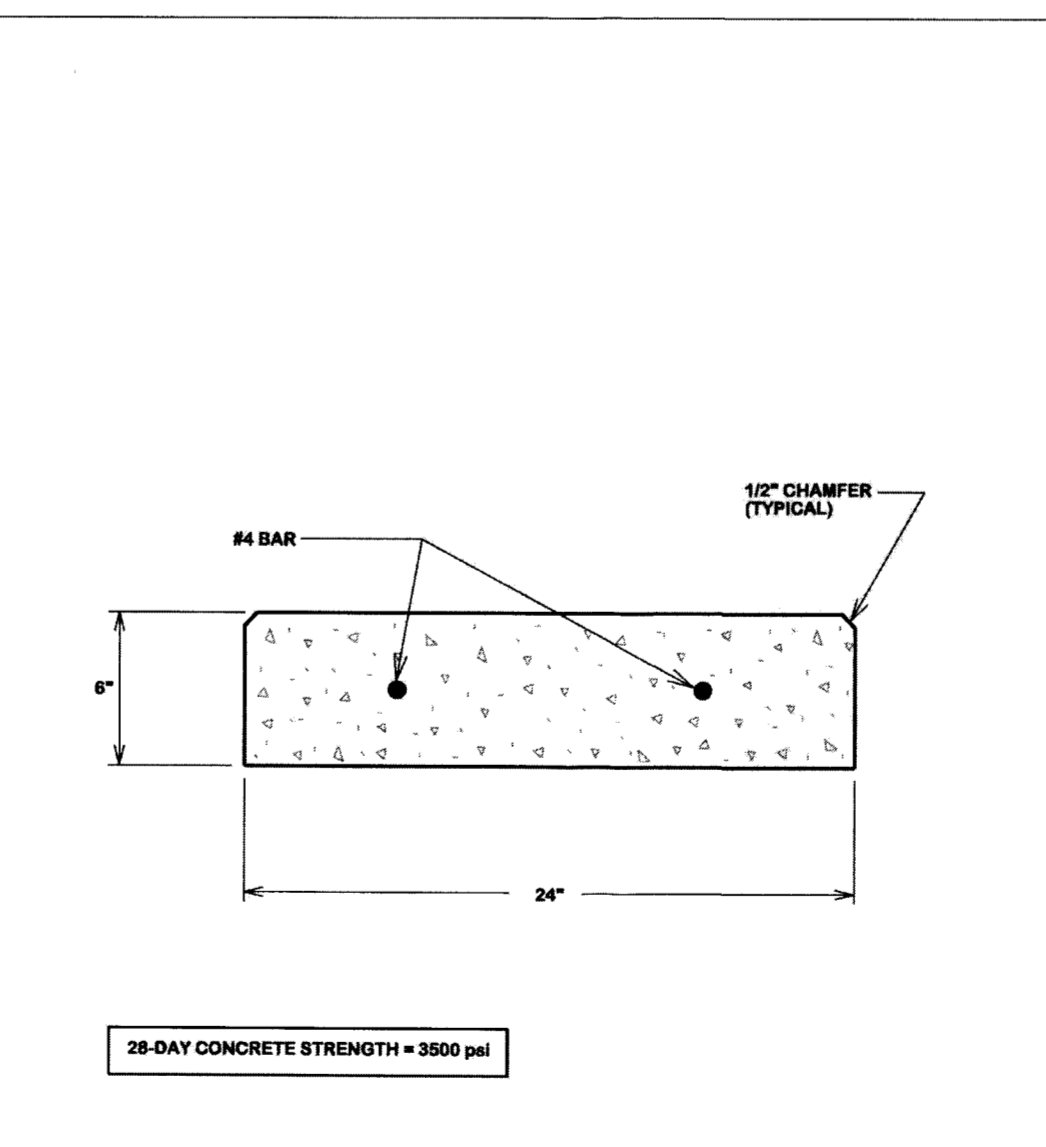
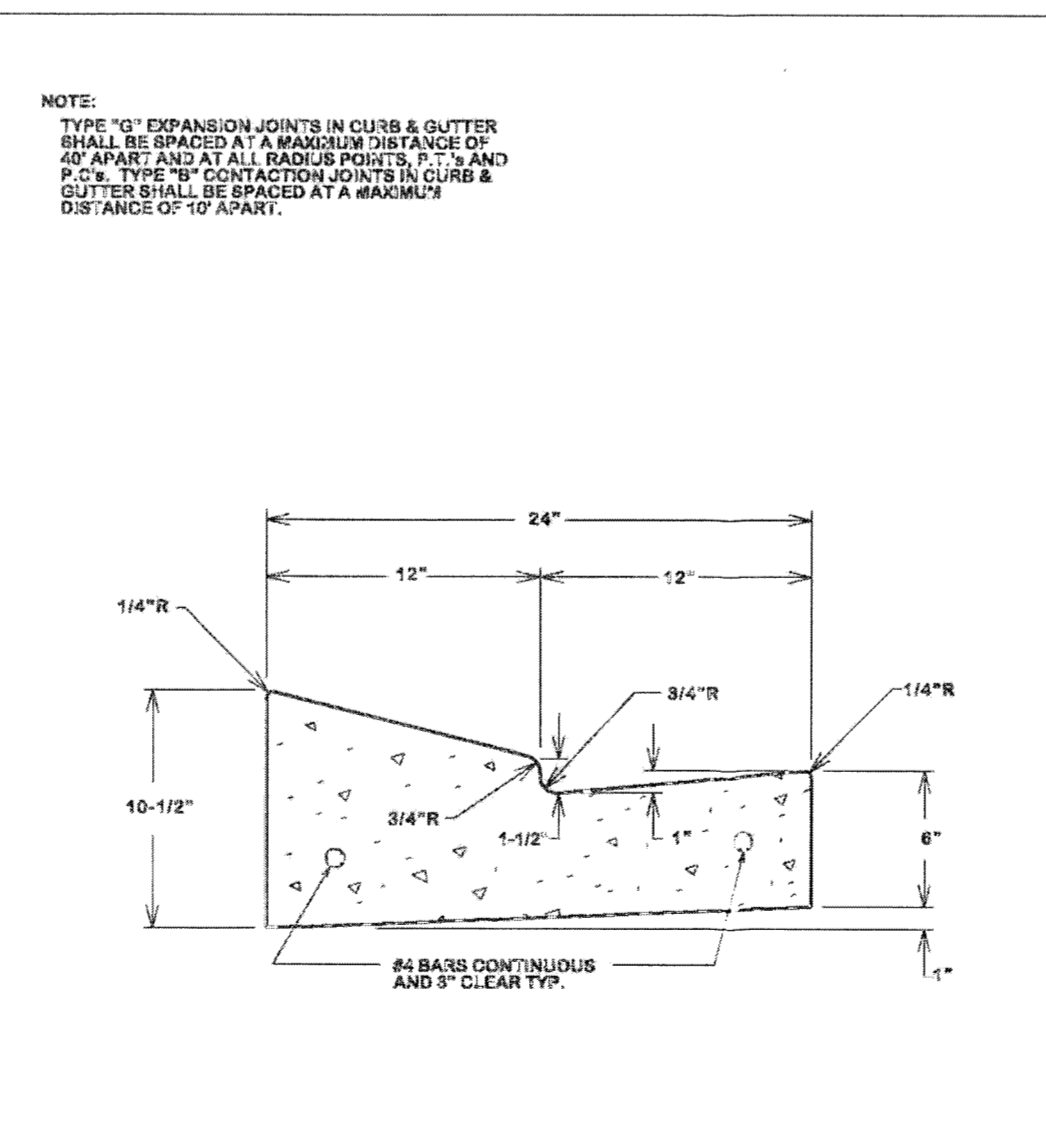
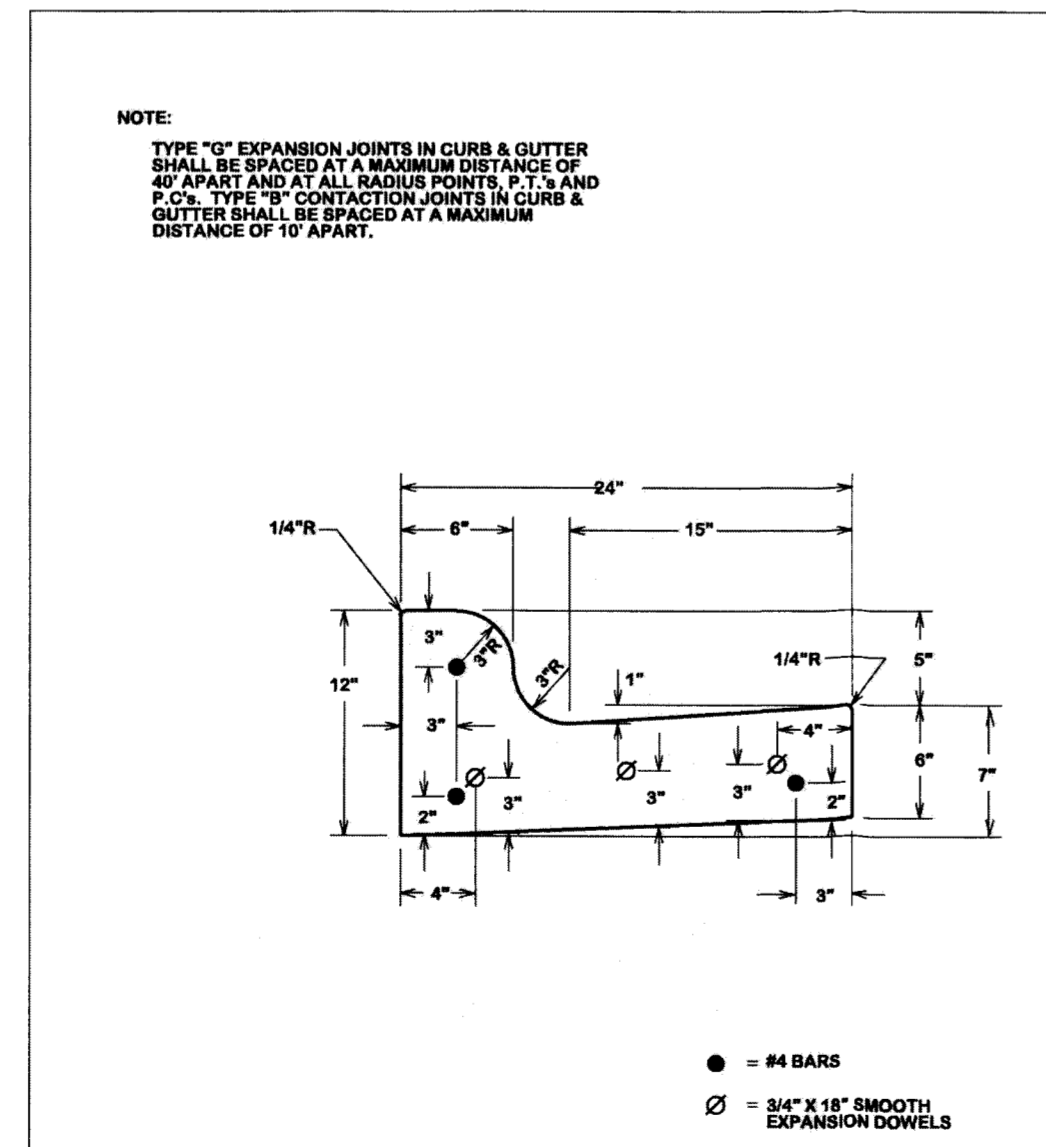
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SAVE OUR STREETS MINISTRIES
SITE PLAN
LOT 2, BLOCK 1
TITIAL / WORKSHOP & STC
BRYAN, BRAZOS COUNTY, TEXAS



RESIDENTIAL



C1.2

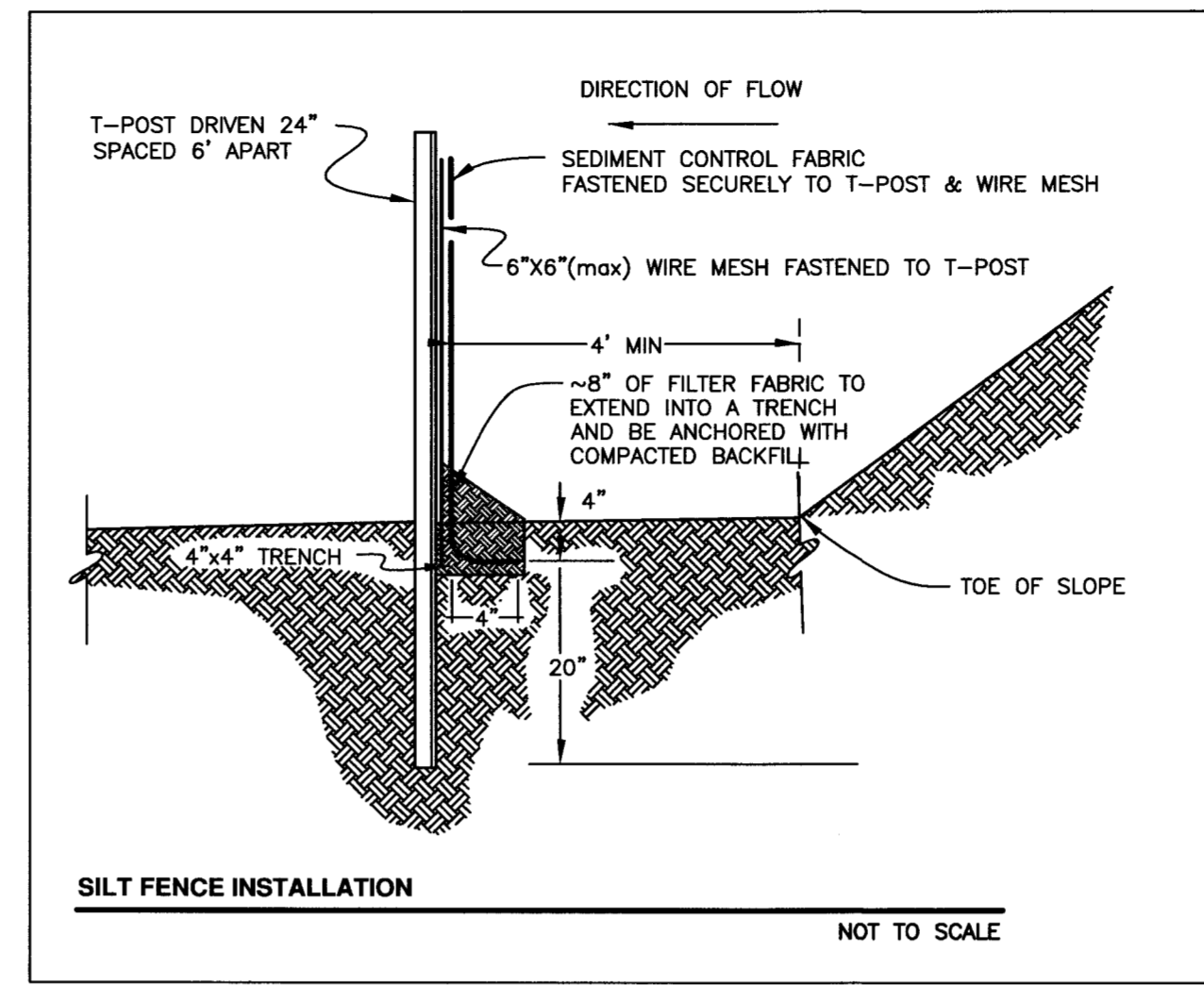
SITE	
1	INSTALL 6" CONCRETE PAVEMENT ON ALL DRIVE ISLES, #4 BARS @ 12" O.C.W.
2	INSTALL STANDARD #6 REINFORCED CONCRETE CURB & GUTTER POURED MONOLITHICALLY WITH PAVEMENT.
3	INSTALL STANDARD FLUSH RIBBON CURB POURED MONOLITHICALLY WITH PAVEMENT.
4	INSTALL STANDARD LAY DOWN CURB POURED MONOLITHICALLY WITH PAVEMENT.
5	INSTALL 6" CONCRETE WHEEL STOP (FACE OF WHEEL STOP TO BE 2' FROM CURB).
6	PROVIDE HANDICAP PARKING SPACE (VAN ACCESSIBLE) WITH UNIVERSAL HANDICAP SYMBOL, PAINTED IN SPACE).
7	PROVIDE HANDICAP LOADING ZONE - PAVEMENT MARKING ACCORDING TO TAS/ADA.
8	INSTALL MOUNTED HANDICAP SIGN - VAN ACCESSIBLE.
9	INSTALL 5" CONCRETE PAVEMENT ON ALL PARKING AREAS, #4 BARS @ 12" O.C.W.
10	PROVIDE 4' WIDE PARKING STRIPE (WHITE - 9'x20' TYPICAL).
11	PROVIDE FIRE LANE DESIGNATION - 8" WIDE FIRE LANE STRIP PAINTED RED WITH WORDING "FIRE LANE" - NO PARKING - TOW AWAY ZONE IN 4" WHITE LETTERS, WORDING NOT TO BE SPACED MORE THAN 15' APART. PAINT CURBS ON PAVEMENT.
12	INSTALL J-JOINT CONCRETE CONNECTION AT PAVEMENT INTERSECTION.
13	INSTALL 12" WIDE x 12" DUMPTER PAD WITH BOLLARDS & LAY DOWN CURBS, #6 CONCRETE PAVEMENT, #5 BARS @ 12" O.C.W.
14	CONCRETE WASHOUT AREA.
15	ROCK RUBBER-RIP-RAP TO BE LIMESTONE USING GENERALLY 50 lb=100 lb PIECES W/ SMALLER ROCK FILLING Voids. ROCK TO BE INSTALLED TO 4" MIN. THICKNESS. 1" SOIL RETENTION FILTER FABRIC BENEATH ROCK PER TPOOT MATERIAL SPEC. D-9-6200, TYPE 2, RUBBLE TO BE WELL PLACED PRIOR TO TPOOT SPEC. ITEM #432, STONE RIP-RAP (TYPE F), BROKEN CONCRETE MAY NOT BE USED. NO SOIL SHOULD BE VISIBLE THROUGH RIP-RAP.
16	INSTALL 18" RCP @ 2% GRADE W/ 6:1 SOIL SLOPE END TREATMENT (UPSTREAM), 4"x8" HEAD WALL WITH 4'x3" SPLASH PAD & RP-RAP (DOWNSTREAM). SEE GRADING PLAN.
17	INSTALL 24" x 36" CONCRETE BOX CULVERT @ 2% GRADE W/ CONCRETE WING-WALL END TREATMENT. SEE GRADING PLAN.
SANITARY	
INSTALL 8" & 6" (PRIVATE) SANITARY SEWER SERVICE LINE. SEE PLAN/PROFILE FOR COMPLETE DETAILS.	
18	6" PVC SANITARY SEWER SERVICE LINE.
19	6" PVC SANITARY SEWER SERVICE LINE.
20	INSTALL SANITARY SEWER MANHOLE. TOP: 340.41 FL IN: 331.77 6" PVC FL OUT: 331.53 8" PVC
21	INSTALL SANITARY SEWER CLEANOUT.
22	INSTALL DOUBLE SANITARY SEWER CLEANOUT.



	TYPICAL COMBINED CURB & GUTTER SECTION		
	DATE AUG. 2012	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO. ST1-01

 CITY OF BRYAN	24" LAY DOWN GUTTER SECTION			 CITY OF COLLEGE STATION
	DATE APR. 2012	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO. ST-1.0C	

 OF BRYAN	TYPICAL RIBBON CURB			 CITY OF COLLEGE STATION
	DATE AUG. 2012	B/C'S UNIFIED STANDARD	DETAIL NO. ST-103	



DESCRIPTION OF CONTROLS

EROSION AND SEDIMENT CONTROL:
1. SLOPE EROSION CONTROL MATS SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF EROSION CONTROL MEASURES.
2. ROCK CONSTRUCTION ENTRANCE
3. SEDIMENT TRAP

INSTALL EROSION & SEDIMENT CONTROL DEVICES PER DETAILS HEREON.

SEDIMENT MUST BE REMOVED FROM SEDIMENT CONTROL DEVICES PRIOR TO SEDIMENT BEING DISCHARGED INTO ANY WATERWAY.

IF SEDIMENT ESCAPES FROM THE SITE AREA, ACCUMULATIONS MUST BE REMOVED AS FREQUENTLY TO MINIMIZE FURTHER NEGATIVE EFFECTS, AND WHENEVER FEASIBLE, PRIOR TO THE NEXT RAIN EVENT.

STABILIZATION PRACTICES:
1. ALL STOCK PILED AND OTHER DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASE FOR AT LEAST 21 DAYS MUST BE SEEDED IMMEDIATELY AFTER THE DISTURBANCE HAS BEEN COMPLETED.

PERMANENT STABILIZATION: ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE SODDED OR HYDROMULCH SEEDDED (AS PER PLAN) FOR PERMANENT EROSION CONTROL. NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. SEEDING SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
1. SEEDING SHALL BE CONDUCTED PRIOR TO FINAL GRADING.
2. REVEGETATION, CONTRACTOR IS TO REPLACE TOPSOIL TO A DEPTH OF 8". TOPSOIL IS TO BE DISKED TO A DEPTH OF AT LEAST 4" AND LIGHTLY COMPACTED.

HYDROMULCH: TO BE "EXCEL FIBERMULCH W/ 7% TACKIFIER" - APPLICATION RATE SHALL BE 1.0 LB. PER SQ. YD. OF FERTILIZER. TO BE IN ACCORDANCE WITH SLOTTED GRASS SEEDS: 90 LB. PER ACRE - SUMMER-HULLED COMMON BERMAUDA GRASS, 80% PER ACRE - WINTER-HULLED COMMON BERMAUDA GRASS, MIN. 80% PURE LIVE SEED @ 90 LB. PER ACRE + ANNUAL RATE, MIN. 80% PURE LIVE SEED @ 175 LB. PER ACRE.

FERTILIZER: 3-1-2 RATIO FERTILIZER W/ SLOTTED GRASS SEEDS @ 350 LB. PER ACRE.

MAINTENANCE: SHALL CONSIST OF WEEDING, FERTILIZING, INSECT CONTROL, WATERING, REPLANTING, MOWING, MAINTAINING OF EXISTING GRASSES, AND REPAIR OF ANY EROSION DAMAGE TO EXISTING GRASSES AND SEEDING AND MULCHING WORK. COMPLETE MAINTENANCE TO BE CONDUCTED DURING THE PLANTING PERIOD THRU 90 DAYS AFTER THE WORK IS COMPLETED, INSPECTED AND APPROVED BY THE ENGINEER AND OWNER.

GUARANTEE: CONTRACTOR IS RESPONSIBLE FOR WATERING, MAINTENANCE AND REPLANTING OF ALL SEEDING AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPLICATION FOR PERMANENT EROSION CONTROL. CONTRACTOR IS TO GUARANTEE ALL SEEDING AREAS TO BE COVERED WITHIN A PERIOD OF 6 MONTHS. GROWTH AND COVERAGE SHALL BE DEFINED AS 85% OF THE PLANTED AREA WITH UNIFORM COVERAGE AND A MINIMUM OF 1 INCH IN HEIGHT WITH NO BARE SPOTS GREATER THAN 2 SQUARE FEET.

SLT FENCE TO BE INSTALLED PER DETAIL AT TOE OF DOWNHILL SLOPES/STOPILOPS AS SHOWN ON PLAN. HAY BALE CHECK STRUCTURES (IF NEEDED) ARE TO BE INSTALLED PER PLAN AT UPSTREAM END OF OUTLET WORKS.

ALL EROSION CONTROL DEVICES ARE TO BE MAINTAINED UNTIL ESTABLISHMENT OF GRASS OCCURS.

PERMANENT STORM WATER CONTROLS:

STORM WATER WILL DRAIN TO THE PROJECT SPECIFIC DETENTION POND AND DRAINAGE BASIN. EROSION CONTROL MEASUREMENT WILL BE PROVIDED ON-SITE AS SHOWN HEREON.

OFFSITE VEHICLE TRACKING:

ALL EROSION CONTROL DEVICES, NO CONSTRUCTION DEBRIS OR MUD IS TRACKED OR DISCARDED ONTO ANY PUBLIC OR PRIVATE STREETS OR LANDS AND IS RESPONSIBLE TO THE CONTRACTOR TO BE REMOVED FROM THE SITE. CONSTRUCTION DEBRIS IS TO BE REMOVED FROM THE SITE AND DISCARDED AT AN APPROPRIATE LOCATION. TRACKING IS TO BE INDICATED WITH CURB PROTECTION. CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGE TO EXISTING STREETS OR INFRASTRUCTURE.

WASTE MATERIALS:

ALL WASTE MATERIALS ARE TO BECOME PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED FROM THE SITE. NO ON-SITE BURNING OF WASTE MATERIALS IS ALLOWED. AT THE END OF EACH WORKING DAY, ALL WASTE MATERIALS ARE TO BE COLLECTED AND RUBBERED AND SHIPPED TO THE CONTRACTOR IN AN ACCEPTABLE MANNER WHICH IS TO BE APPROVED BY THE CITY OF TULSA. WASTE MATERIALS ARE TO BE REMOVED TO THE SITE OR ADJACENT LANDS OR WATER COURSES.

HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF AS PER THE CITY OF TULSA IN ACCORDANCE WITH MFC'S SPECIFICATIONS.

TIMING OF CONSTRUCTION MEASURES

- TO INSTALL SLT FENCING.
- TO INSTALL FENCE BAGS.
- TO INSTALL ROCK CONSTRUCTION ENTRANCES(S)
- TO DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESEEDING OR BROADCAST SEEDING (AS PER PLAN) NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY.
- DURING CLEARING/GRADING ACTIVITIES, SEDIMENT COLLECTING AT CHECK STRUCTURES SHALL BE MAINTAINED AS IT REACHES 1/2 THE HEIGHT OF THE STRUCTURE.
- ALL DISCOURSED AREAS WERE CONSTRUCTION TEMPORARILY CEASED SHALL BE HYDROMULCHED SEEDS OR BROADCAST SEEDING (AS PER PLAN) FOR PERMANENT EROSION CONTROL. NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY.

INSPECTION OF CONTROLS:

ALL INSPECTIONS AS PART OF OTHER UNCONTROLLABLE SITUATIONS WHICH PROHIBIT ACCESS TO THE INSPECTION SITES, INSPECTIONS MUST BE CONDUCTED AS SOON AS ACCESS IS AVAILABLE.

CONTRACTOR PERSONNEL FAMILIAR WITH THE SWP'S MUST INSPECT DISTURBED AREAS THAT HAVE NOT BEEN FULLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS AND ARE NOT FULLY STABILIZED. INSPECTIONS SHALL BE CONDUCTED FOR EVIDENCE OF POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM, SEDIMENT & EROSION CONTROL DEVICES, EROSION CONTROL DEVICES, PROPER EROSION CONTROL, AND EVIDENCE OF POLLUTANTS ENTERING THE DRAINAGE SYSTEM. VEHICLES, TRAILERS, OR EXCESSIVE STORAGE OF MATERIALS SHALL BE REMOVED FROM THE ENTRANCE/EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

INSPECTIONS MUST BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS FOR THE ENTIRE DURATION OF THE PROJECT. INSPECTIONS SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTIONS, AS NECESSARY, TO CORRECT DEFICIENCIES. INSPECTIONS SHALL BE COMPLETED BY THE END OF THE FOURTH (4) HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

THE SWP'S MUST BE MODIFIED BASED ON RESULTS OF INSPECTIONS, AS NECESSARY, TO CORRECT DEFICIENCIES. INSPECTIONS SHALL BE COMPLETED BY THE END OF THE FOURTH (4) HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

A REPORT IN GENERAL PERMIT, WITH THE TPO'S GENERAL PERMIT MUST BE MAINTAINED BY THE CONTRACTOR.

CERTIFICATIONS & RESPONSIBLE PARTIES

CERTIFICATION OF COMPLIANCE WITH
FEDERAL, STATE, AND LOCAL REGULATIONS


THIS EROSION CONTROL AND STORM WATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED IN ACCORDANCE WITH CURRENT: CITY OF BRYAN DRAINAGE POLICY, CITY OF BRYAN STORM WATER POLLUTION PREVENTION POLICY, EPA REQUIREMENTS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT, USACE 33 CFR, & SECTION 404 OF THE CLEAN WATER ACT & TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT No. TXR150000 AS ADMINISTERED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).

MAINTENANCE/INSPECTION PROCEDURES:

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- ALL CONTROL MEASURES TO BE INSPECTED BY CONTRACTOR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS OR ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR MORE.
- MAINTAIN RECORDS AND REPORTS ACCORDING TO EPA CONSTRUCTION GENERAL PERMIT CHECKLIST.
- MAINTAIN RECORDS OF INSPECTIONS AND WORKING CONDITIONS INITIATED WITHIN 24 HOURS OF REPORT.
- BUILT UP SEDIMENT SHALL BE REMOVED FROM OBERG STRUCTURES AND SILT FENCE WHEN IT HAS REACHED 1/2 THE HEIGHT OF THE STRUCTURE.
- SILT FENCE AND HAY BALES TO BE INSPECTED FOR PROPER INSTALLATION AND THAT NO PILING OR UNDERMINING IS OCCURRING.
- TEMPORARY SEEDING TO BE INSPECTED FOR BARE SPOTS, WASHOUTS AND CRACKING - RE-SEED AS NECESSARY.
- PERMANENT HYDROLOGICAL SEEDING & SOODING TO BE INSPECTED PER PERMANENCE.

SIGNATURE	FOR	RESPONSIBLE FOR
(NAME, TITLE, & DATE)	(COMPANY & ADDRESS)	CLEARING
		TEMPORARY CONTROLS & STABILIZATION
		PERMANENT STABILIZATION (RE-VEGETATION)

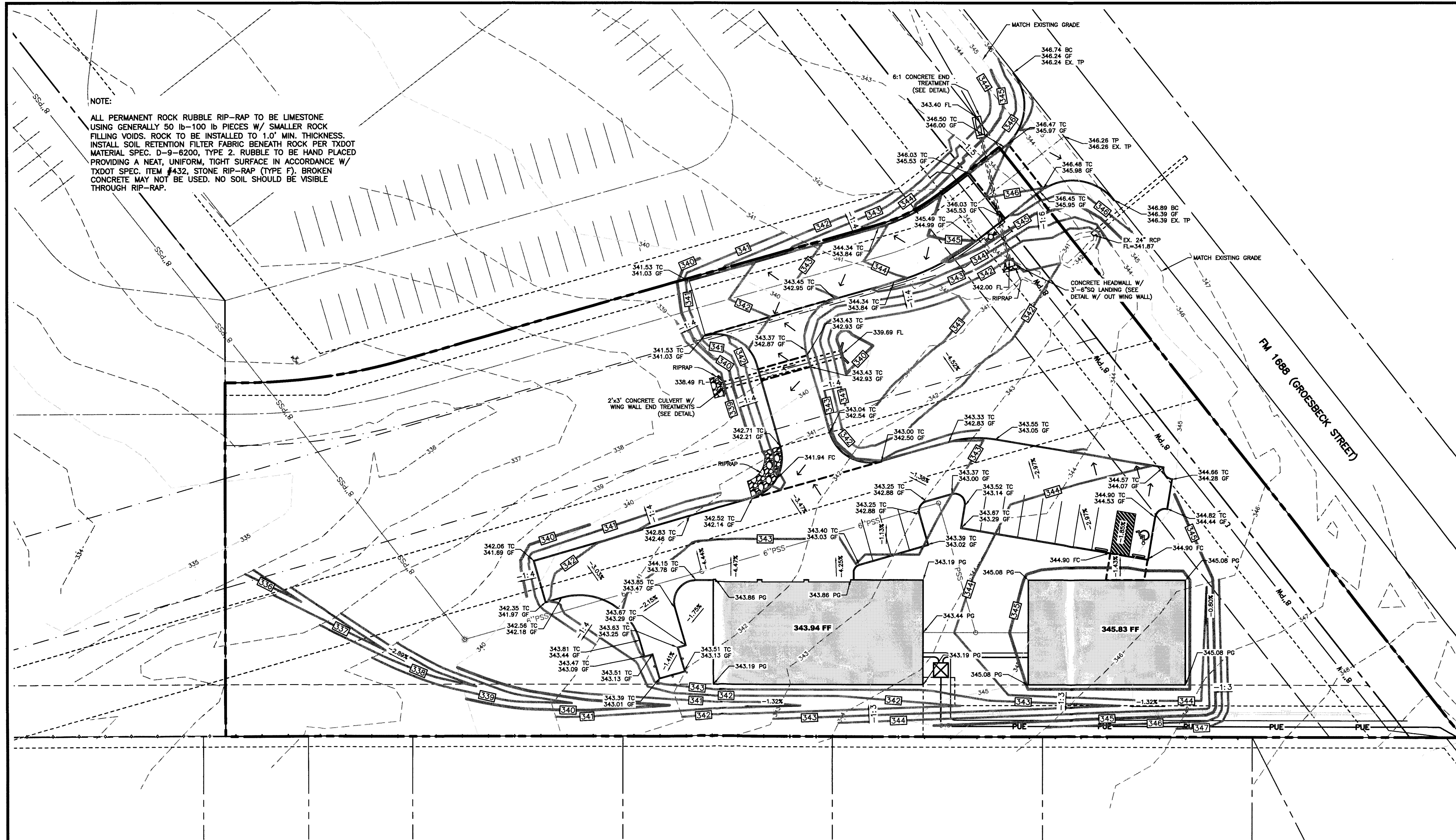
 <p>D. O. N. D. U. R. D. E. N. I. N. C. dba.CIVIL ENGINEERING CONSULTANTS 4101 S. TEXAS AVE., SUITE A BRYAN, TEXAS 77802 TEL: (979) 846-5212 FAX: (979) 846-5213 REGISTRATION #F-2214</p>	DESIGNED BY:	DJD
	DRAWN BY:	DJD
	APPROVED:	APP
	JOB NO.:	SAN ANTONIO / LAREDO BRYAN / COLLEGE STATION

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SAVE OUR STREETS MINISTRIES
SWP3 PLAN
LOT 2, BLOCK 1
RESIDENTIAL / WORKSHOP & STORAGE
BRYAN, BRAZOS COUNTY, TEXAS

C2.1

K:\data\BCS\Existing\Land Projects R2\041\Zano Phillips A-45\SSO.S. 19.6 Acre Tract\dwg\acad 2015\Engineering\C3.1-Grading Plan.dwg - April 5, 2016



LEGEND

ABBREVIATIONS

EXISTING TOP OF PAVING EX. TP
PROPOSED TOP OF PAVING TP
PROPOSED TOP OF CURB TC
PROPOSED GUTTER FLOW LINE GF
PROPOSED FLOW LINE FL
PROPOSED GRADE BREAK
FLOW DIRECTION
PROPOSED CONTOURS
EXISTING CONTOURS -295-

CITY SPECIFICATIONS
MATERIALS FOR EMBEDMENT - KEY

④ SELECT MATERIAL
MATERIAL EXCAVATED FROM THE DITCH WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION.

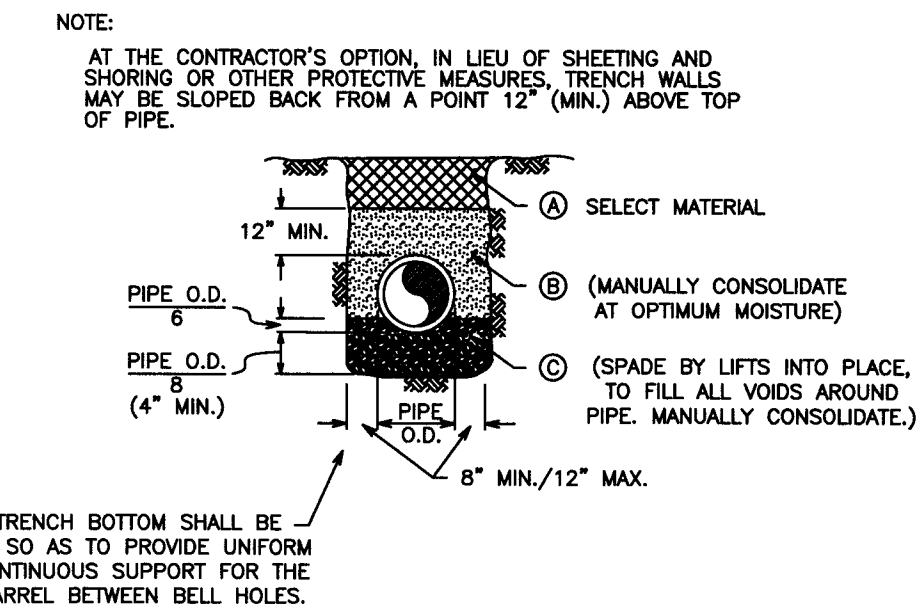
⑤ GRANULAR MATERIAL
MATERIAL SHALL BE BANK RUN RIVER SAND WHICH IS FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL AND WHICH, WHEN TESTED BY STANDARD LABORATORY METHODS, MEET THE FOLLOWING REQUIREMENTS:

REQUIREMENTS	45	15	15	100
MAXIMUM LIQUID LIMIT	45			
MAXIMUM PLASTICITY INDEX	15			
MAXIMUM PERCENT PASSING NO. 200 SIEVE		15		
MINIMUM PERCENT PASSING 3/4" SIEVE			100	

THE MATERIAL SHALL BE FREE FLOWING AND WHEN WET, SHALL NOT ADHERE TO FORM A BALL WHEN PRESSED IN THE HAND.

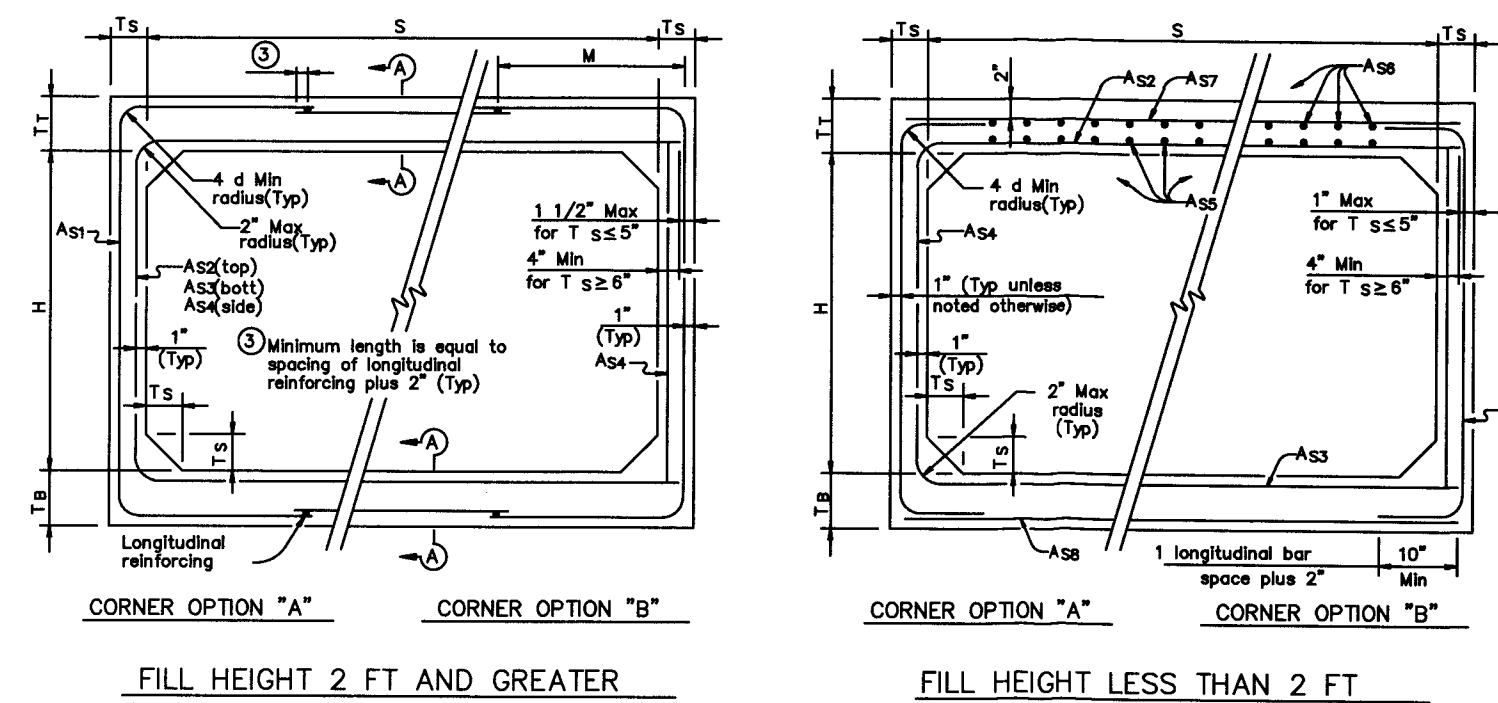
⑥ COMPACTED CRUSHED STONE, FINE GRADATION CRUSHED STONE CONSISTING OF DURABLE PARTICLES AND MEETING THE FOLLOWING REQUIREMENTS:

PASSING	100%	80-100%	15-50%	LESS THAN 2%
PASSING 1/2" SIEVE	100%			
PASSING 3/8" SIEVE		80%		
PASSING NO. 4 SIEVE			15-50%	
PASSING NO. 10 SIEVE				LESS THAN 2%



BEDDING & TRENCH FOR RCP

NOT TO SCALE



FILL HEIGHT 2 FT AND GREATER

FILL HEIGHT LESS THAN 2 FT

SECTION DIMENSIONS		BOX DATA		REINFORCING (in 1/4")		LIT. Weight (Tons)	
S	H	T ₁	T ₂	A ₁	A ₂	A ₃	A ₄
3	2	7	6	4	2	0.17	0.25
						0.18	0.10
						0.17	0.17
						0.17	0.14
						0.14	3.3

GENERAL NOTES:
Designs shown conform to ASTM C1577.
Refer to ASTM C1577 for information or details not shown.
All concrete shall be Class "1" Concrete with a minimum compressive strength of 5,000 psi.
See SCP-3D standard sheet for miscellaneous details and notes not shown.
In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structural Members (Fabrication)".

SECTION A-A
(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

HL93 LOADING		Bridge Division Standard	
Texas Department of Transportation		SINGLE BOX CULVERTS	
		PRECAST	
		3'-0" SPAN	
SCP-3			
File: scp3.dwg	Rev: 01	Rev: 01	Rev: 01
1/2/2001	February 2001	01	01

PLAIN

ELEVATION VIEW

END VIEW

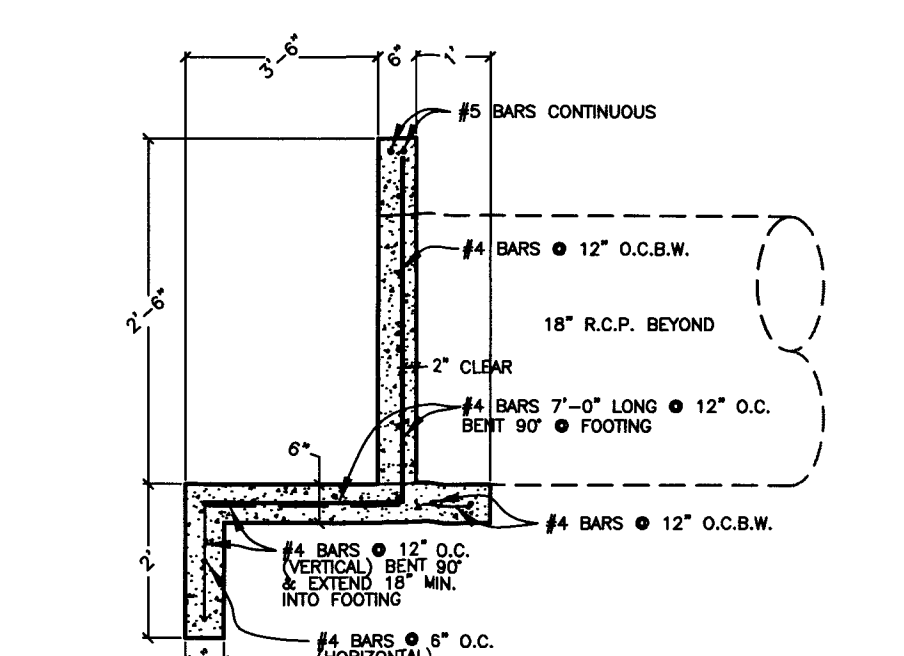
SPECIFICATIONS:

- Concrete: Class "C" with design strength of 3600 PSI at 28 days.
- Steel reinforcement: ASTM A-615 Grade 60.
- Reinforcement: #4 @ 9" O.C. ea way or wire mesh equivalent to 0.24 in / linear foot in each direction.
- Galvanized pipe shall conform to TXDOT specifications.

Pipe I.D.	Slope	Weight	W	L	A	B
18"	3 : 1	1,655 Lbs.	28"	57"	24"	15"
	4 : 1	2,005 Lbs.	28"	72"	24"	15"
	6 : 1	2,710 Lbs.	28"	102"	24"	15"

PRECAST SLOPED CONCRETE SAFETY END TREATMENT

NOT TO SCALE



HEADWALL W/ LANDING (DOWNSTREAM)

NOT TO SCALE

PLAN

SECTION A-A

TYPICAL CONCRETE HEADWALL & ENDWALL WITH WINGS

MINIMUM DISTANCE BETWEEN TWO PIPES

18" TO 36" - 12" APART
48" OR LARGER - 18" APART

28-DAY CONCRETE STRENGTH = 3000 psi

DATE
AUG. 2012

B/C'S UNIFIED STANDARD DETAIL

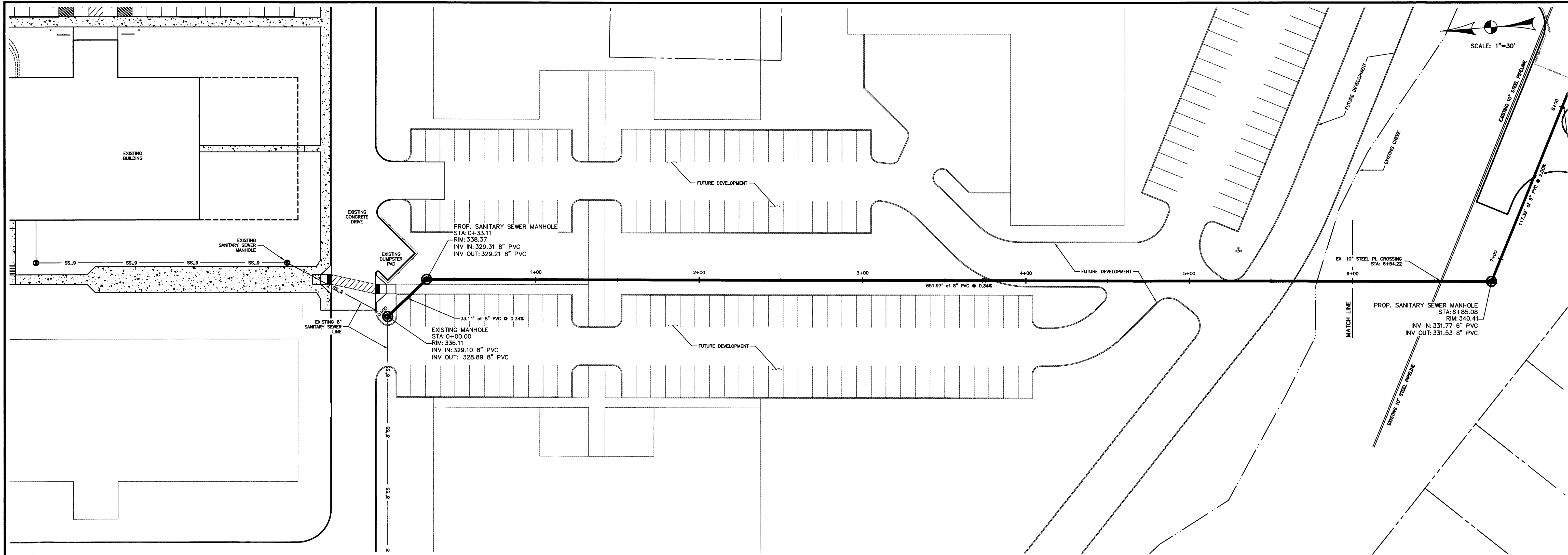
DETAIL NO.
D3-00

CITY OF BRYAN

CITY OF COLLEGE STATION

DESIGNED BY:	D.D.	DRAWN BY:	D.D.	APPROVED:	APP	JOB NO.:	NUMBER
D. N. D. U. R. D. E. N. I. N. C. dba CIVIL ENGINEERING CONSULTANTS 4101 S. TEXAS AVE., SUITE A BRYAN, TEXAS 77802 TEL: (979) 846-6212 FAX: (979) 846-6252 REGISTRATION #F-2214							
04/05/2016							
SAVE OUR STREETS MINISTRIES							
GRADING PLAN							
LOT 2, BLOCK 1							
RESIDENTIAL / WORKSHOP & STORAGE							
BRYAN, BRAZOS COUNTY, TEXAS							
SHEET NO.							
C3.1							

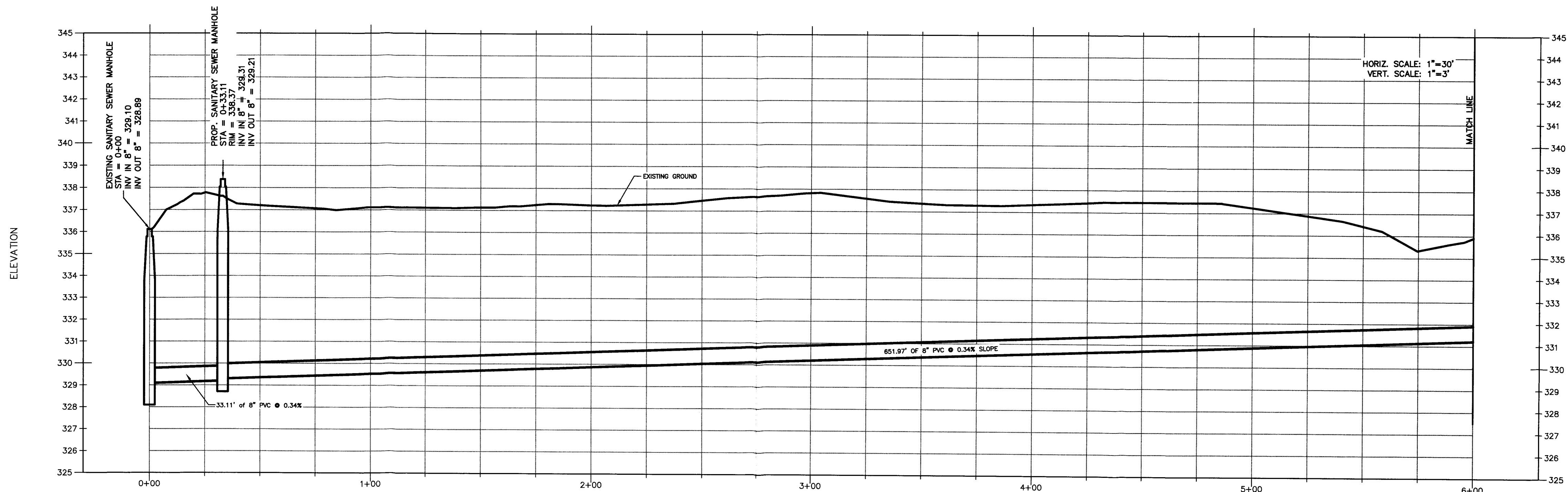
K:\data\BCS\Existing\Land Projects\2\04\Zeno Phillips A-43\S.O.S. 19.6 Acre Tract\dwg\Acad 2015\Engineering\C5.1-Sanitary Sewer-service line.dwg - April 15, 2016



PROPOSED SS SERVICE LINE 0+00 THRU 6+00

NOTE:

1. CONTRACTOR TO CONFIRM FLOW LINE OUT OF EXISTING MANHOLE. IF MEASURED FLOW LINE CONFLICTS WITH PLAN, CONTACT CIVIL ENGINEERING CONSULTANTS BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR TO CONFIRM EXACT VERTICAL & HORIZONTAL LOCATION OF EXISTING 10" STEEL PIPELINE. IF LOCATION CONFLICTS WITH PLAN, CONTACT CIVIL ENGINEERING CONSULTANTS BEFORE BEGINNING CONSTRUCTION.
3. ALL SANITARY SEWER MANHOLES LOCATED WITHIN GRASSED OR LANDSCAPED AREAS ARE TO BE 6"-9" ABOVE FINISHED GRADES.
4. CONTRACTOR IS RESPONSIBLE FOR RECONNECTING ANY EXISTING SANITARY SEWER LINES CONNECTED TO NEW MANHOLE STRUCTURES WHICH MAY OR MAY NOT BE REPRESENTED IN THESE DOCUMENTS.



DESIGNED BY:	DDJ
DRAWN BY:	DDJ
APPROVED:	AAP
JOB NO.:	

DON DUREN, INC.
d.b.a. CIVIL ENGINEERING CONSULTANTS
4101 S. TEXAS AVE., SUITE A
BRYAN, TEXAS 77802
TEL: (979) 846-6212
FAX: (979) 846-6252
REGISTRATION #7-2214

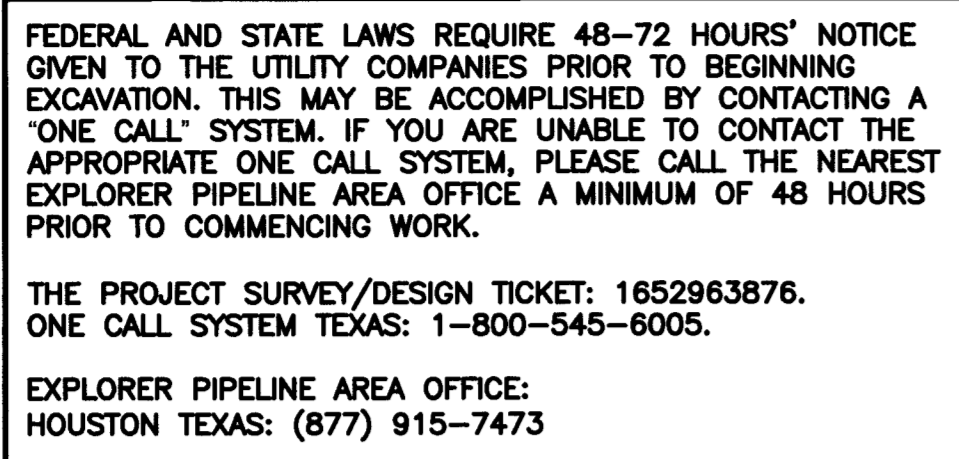
CEC
SAN ANTONIO / LAREDO
BRYAN / COLLEGE STATION

STATE OF TEXAS
ALFRED P. PAIN
04/05/2016

REV	DATE	DESCRIPTION

SAVE OUR STREETS MINISTRIES
PLAN / PROFILE
8" & 6" SANITARY SEWER LINE
STATION 0+00 THRU 6+00
BRYAN, BRAZOS COUNTY, TEXAS

SHEET NO.
C5.1



SCALE: 1"=30'

DESIGNED BY:	DDJ
DRAWN BY:	DDJ
APPROVED:	AAP
JOB NO.:	

D O N D U R D E N , I N C
d.b.a. CIVIL ENGINEERING CONSULTANTS
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FAX: (979) 846-8252
REGISTRATION #F-2214

STATE OF TEXAS
ALFRED P. PAINES
JULY 1904
04/05/20

DESCRIPTION

REV	DATE
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SAVE OUR STREETS MINISTRIES

SAVE OUR STREETS MINISTRIES
PLAN / PROFILE
8" & 6" SANITARY SEWER SERVICE LINE
STATION 6+00 THRU 9+84

SHEET NO.

C5.2

NOTE:

1. CONTRACTOR TO CONFIRM FLOW LINE OUT OF EXISTING MANHOLE. IF MEASURED FLOW LINE CONFLICTS WITH PLAN, CONTACT CIVIL ENGINEERING CONSULTANTS BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR TO CONFIRM EXACT VERTICAL & HORIZONTAL LOCATION OF EXISTING 10" STEEL PIPELINE. IF SANITARY CONFLICTS WITH PLAN, CONTACT CIVIL ENGINEERING CONSULTANTS BEFORE BEGINNING CONSTRUCTION.
3. ALL SANITARY SEWER MANHOLES LOCATED WITHIN GATED OR LANDSCAPED AREAS ARE TO BE 6"-9" ABOVE FINISHED GRADES.
4. CONTRACTOR IS RESPONSIBLE FOR RECONNECTING ANY EXISTING SANITARY SEWER LINES CONNECTED TO NEW MANHOLE STRUCTURES WHICH MAY OR MAY NOT BE REPRESENTED IN THESE DOCUMENTS.

